



# FortiAnalyzer 1000D

## QuickStart Guide



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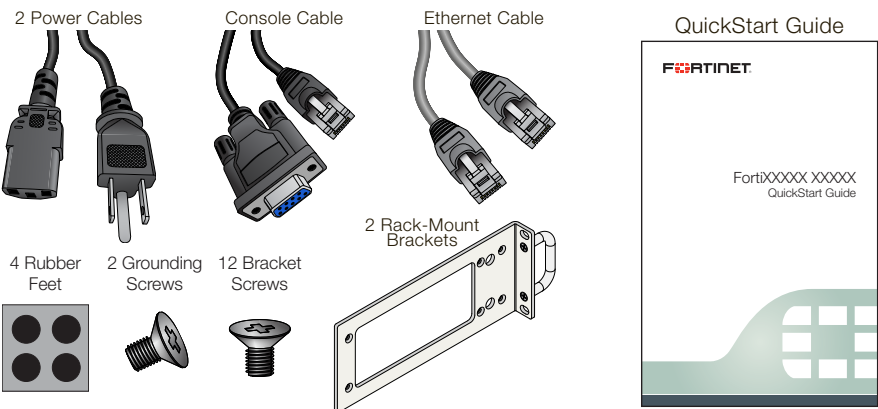
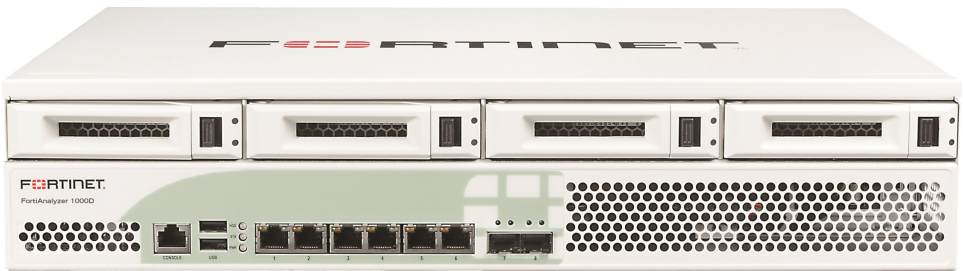
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# Package Contents

Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

- FortiAnalyzer 1000D
- QuickStart Guide
- 2 Power Cables
- Console Cable
- 2 Rack-Mount Brackets
- Ethernet Cable
- 4 Rubber Feet
- 2 Grounding Screws
- 12 Bracket Screws



**Note:** Accessories may not be exactly as shown.

# Installation

The FortiAnalyzer unit can be placed on any flat surface, or mounted in any standard 19 inch (48.3 cm) rack unit with the provided rack-mount brackets and screws.

Please read the Cautions and Warnings section prior to installing your device.

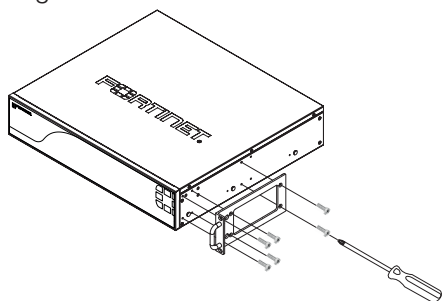
**Caution:** Electrostatic discharge (ESD) can damage your Fortinet equipment.

**Caution:** Do not place heavy objects on the unit.

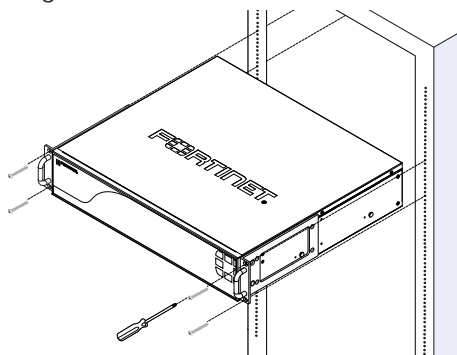
## To install the FortiAnalyzer unit into a rack:

**Caution:** To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

1. Ensure that the FortiAnalyzer unit is placed on a stable surface prior to rack-mount installation.
2. Attach the provided rack-mount brackets to the sides of the unit using the provided screws.
  - a. If you are installing the unit into a four-post rack, attach the rack-mount brackets with the handles aligned with the front of the unit.



- b. If you are installing the unit into a two-post rack, attach the rack-mount brackets with the handles aligned with the middle of the unit.

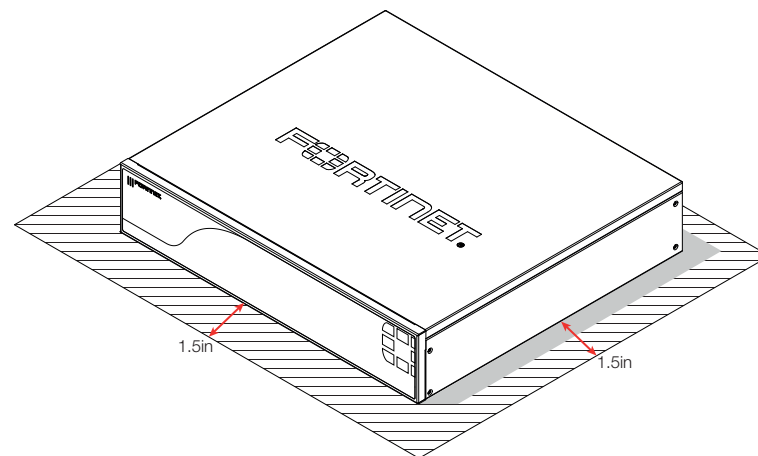


3. Position the FortiAnalyzer unit in the rack. Ensure there is enough room around the unit to allow for sufficient air flow.
4. Line up the rack-mount bracket holes to the holes on the rack and ensure that the FortiAnalyzer unit is level.
5. Finger tighten four rack-mount screws to attach the unit to the rack.
6. Verify that the spacing around the FortiAnalyzer unit conforms to requirements and that the unit is level, then tighten the rack-mount screws with an appropriate screwdriver.
7. Using the provided power cables, plug the cables into the rear of the unit, and then into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

**Note:** If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

## To install the unit on a flat surface:

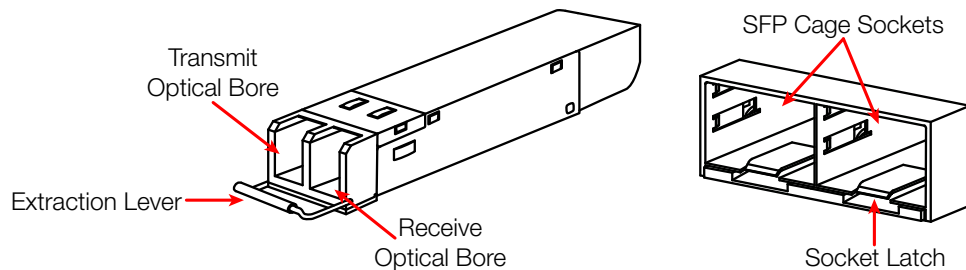
1. Ensure that the surface onto which the FortiAnalyzer unit to be installed is clean, level, and stable and that there is at least 1.5 inches (3.8cm) of clearance on all sides to allow for adequate airflow.
2. Attach the provided rubber feet to the bottom of the FortiAnalyzer unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiAnalyzer unit conforms to requirements and that the unit is level.



5. Using the provided powers cable, plug the cables into the rear of the unit, and then into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

**Note:** If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

# SFP Transceivers



**Caution:** SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

**Caution:** Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

**Note:** Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.

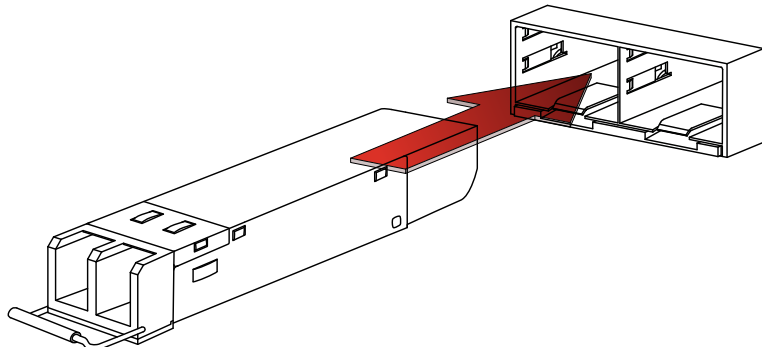
## To install the SFP transceivers:

1. Ensure that you are properly grounded.
2. Remove the caps from SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented.

When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.

**Note:** SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.

4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.



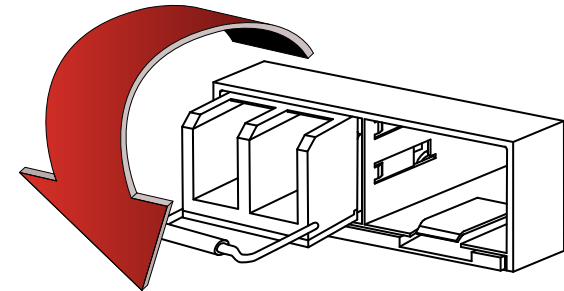
**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

5. Press the transceiver firmly into the cage socket with your thumb.
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever.  
If the transceiver cannot be removed, it is installed and latched correctly.  
If the transceiver can be removed, reinsert it and press harder with your thumb.  
If necessary, repeat this process until the transceiver is securely latched into the cage socket.

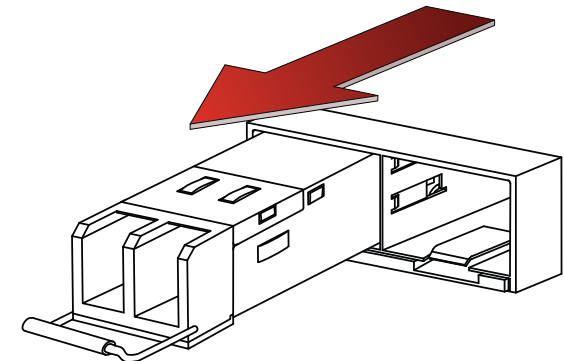
## To remove the SFP transceivers:

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver.

If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

# Configuring Your Device

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The FortiAnalyzer unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

The FortiAnalyzer unit can be configured using the Web-based Manager or the Command Line Interface (CLI).

This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

## To Connect to the Web-based Manager:

1. Connect the FortiAnalyzer unit Ethernet port 1 to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiAnalyzer unit:
  - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
  - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiAnalyzer unit Web-based Manager, start a browser of your choice and browse to <https://192.168.1.99/>.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

You can now proceed with configuring your FortiAnalyzer unit.

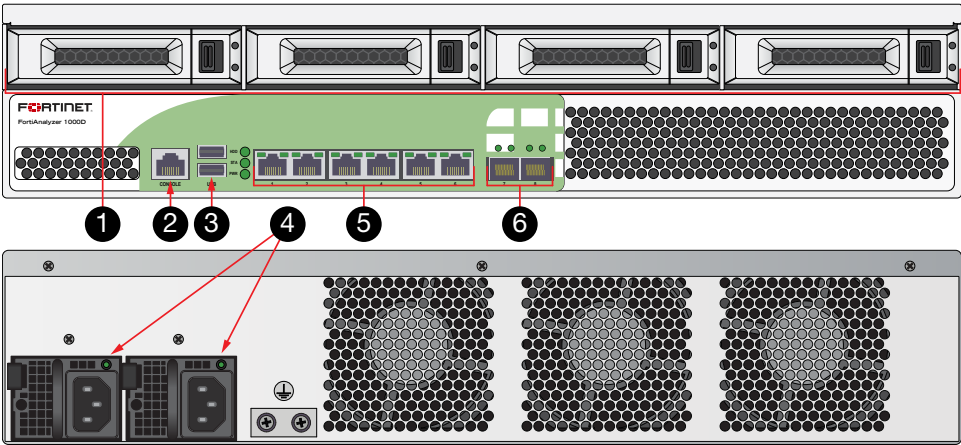
## To Connect to the CLI:

You can configure all FortiAnalyzer configuration options from the CLI.

1. Connect the FortiAnalyzer unit console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer. Use the following settings:
  - Baud Rate: 9600
  - Data bits: 8
  - Parity: None
  - Stop bits: 1
  - Flow Control: None
3. Press *Enter* on your keyboard to connect to the CLI.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and press *Enter*.

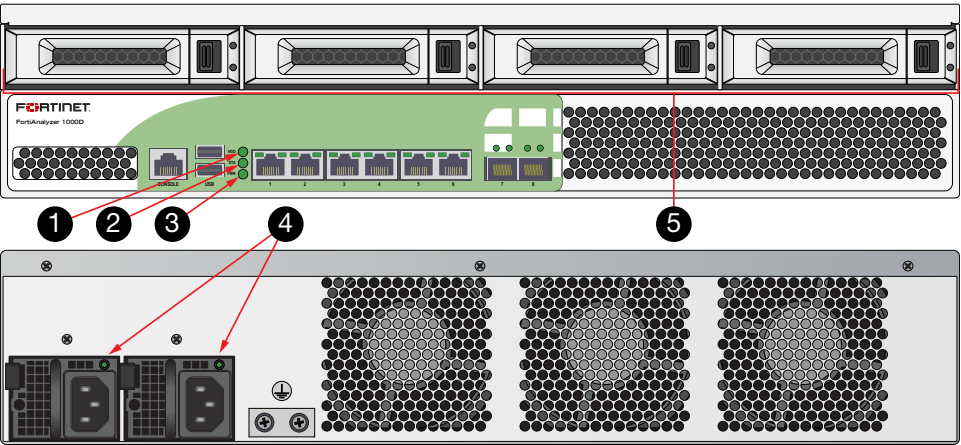
You can now proceed with configuring your FortiAnalyzer unit.

# Technical Specifications



#	Interface	Type	Description
1	Hard Drive	SATA	Four 2TB hard drives.
2	Console	RJ-45	Optional RS-232 serial connection to the management computer. Provides access to the CLI.
3	USB	USB-A	Two USB server ports.
4	Power Supplies		100-240V AC, 5-3A, 50-60Hz, redundant power supplies
5	Ethernet Ports 1-6	RJ-45	Gigabit Ethernet ports for connection to your network and the Internet.
6	SFP Ports 7-8	SFP	1Gbps/auto small form-factor pluggable transceiver ports.

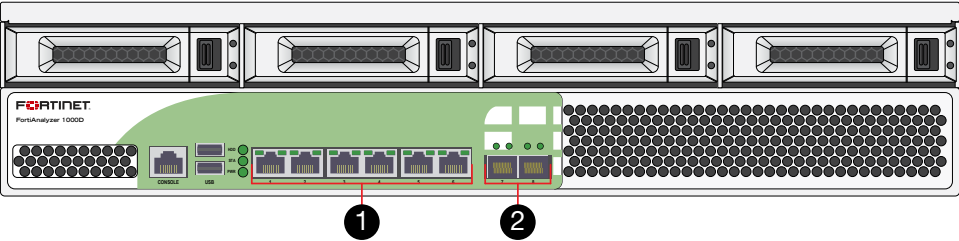
# LED Specifications 1



#	LED	State	Description
1	HDD	Off	This LED is not used.
2	STA	Off	The unit is operating normally.
		Red	The unit has a major alarm.
3	PWR	Green	The system is on.
		Off	The system is off.
		Green	The power supply is running.
		Flashing Green	The power supply is functional but not running.
		Red	The power supply has failed.
4	Power Supplies	Flashing Red	Only this power supply is not powered.
		Flashing Red and Green	Power supply warning.
		Off	The power supply is not powered.
5	Hard Drive Power (Top LED)	Blue	Hard drive installed and powered.
		Off	No hard drive detected.
5	Hard Drive Status	Flashing Green	Hard drive activity.
		Red	Hard drive failure.
		Off	Hard drive is idle.



# LED Specifications 2



#	LED	State	Description
1	Ethernet Ports Activity	Amber	Port is active.
		Flashing Amber	Port is transmitting and receiving data.
		Off	Port is not connected.
1	Ethernet Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps or not in use.
2	SFP Ports Activity	Yellow	Port is active.
		Flashing Yellow	Port is transmitting and receiving data.
		Off	Port is not connected.
2	SFP Ports Link	Orange	Port is connected at 1Gbps.
		Off	Port is not connected

# Cautions and Warnings

Please review the following cautions and warnings.

## Environmental and mounting specifications

Operating Temperature: 0 - 40°C (32 - 104°F)

Storage Temperature: -25 - 70°C (-13 - 158°F)

Humidity: 5 to 95% non-condensing

Operating Altitude: <2250m (7400ft)

**Elevated Operating Ambient:** If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

**Température ambiante élevée:** En fonctionnement, si l'installation est réalisée dans une baie fermée ou que cette baie stocke un nombre important de machines, la température ambiante peut être supérieure à la température de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

**Reduced Air Flow:** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

**Ventilation réduite:** L'installation du matériel dans la baie doit être exécuté de manière à ne pas compromettre la ventilation nécessaire au fonctionnement traditionnel de la machine.

**Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

**Branchement:** L'installation du matériel à l'intérieur de la baie doit être effectué de façon à éviter toute situation dangereuse liée à un branchement non conforme.

**Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

**Surtenstion:** Il convient de prendre l'ensemble des précautions nécessaires lors du branchement du matériel au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification du matériel.

**Reliable Earthing:** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

**Mise à la terre:** Lorsque le matériel est connecté par la terre il doit être protégée. Veuillez tout particulièrement aux branchements électriques autres que les branchements directs au circuit de dérivation (ex: utilisation de multiprises).



## Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Assurez-vous que votre produit soit connecté et bien mis à la terre afin de protéger le dispositif contre la foudre et les surtensions. Les connections réseau WAN ou LAN qui pénètre dans le lieu en question à l'extérieur du bâtiment devrait être connecté à l'Ethernet CAT5 (10/100 Mb/s) afin de permettre une protection contre les surtensions.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Dans la mesure du possible, il est préférable d'utiliser les câbles Ethernet de paire torsadée blindée (aussi appelé en anglais STP ou Shielded Twisted Pair) plutôt que de paire torsadée non blindée (également appelé en anglais UTP ou Unshielded Twisted Pair).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Ne pas brancher ou débrancher les câbles lors d'un orage afin de ne subir aucun dommage corporel et éviter d'endommager votre matériel.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

Toute décharge électrostatique peut endommager votre matériel. N'effectuer les procédures décrites dans ce document seulement à partir d'un poste de travail le permettant. Dans le cas où aucun poste de travail n'est disponible, vous pouvez vous protéger de l'électricité statique en portant un bracelet antistatique et attachez l'autre extrémité à une surface du châssis du système en métal nu (c'est à dire sans peinture, ni autocollant).

**Caution:** Disconnect power supply cords before servicing.

**Attention:** Débranchez les cordons de la source d'alimentation avant tout entretien.

**Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations.

**Attention:** Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales en vigueur.

**IMPORTANT:** Switzerland: Annex 4.10 of SR814.013 applies to batteries.

**IMPORTANT:** Suisse: Annexe 4.10 de SR814.013 s'appliquant aux batteries.

### 警告

本電池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

## Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。V C C I - A

## Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

<https://www.fortinet.com/bsmi>

## China

此为A级产品，在生活环境 中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

## European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

# Documentation and Links

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The following Fortinet web pages provide information and resources for your Fortinet product:

**1. Customer Service & Support:** <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

**2. Technical Documentation:** <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products.

**3. Knowledge Base:** <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

**4. Technical Discussion Forums:** <https://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

**5. Training Services:** <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

**6. FortiGuard Threat Research and Response:** <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

## Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to [techdoc@fortinet.com](mailto:techdoc@fortinet.com).

# Register Your Product

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If you have not registered your Fortinet product, please register your product now.

## Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

## Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

## Registra

La registrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

## Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

## 登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

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您的飞塔产品

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**Toll free:** 1 866 648 4638

**Phone:** 1 408 486 7899

**Fax:** 1 408 235 7737

**Email:** [register@fortinet.com](mailto:register@fortinet.com)

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on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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